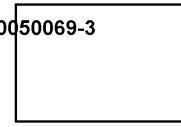


TSD file



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26 October 1960

MEMORANDUM FOR THE RECORD

SUBJECT: Disadvantages of an [] Readout System

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1. Servicing difficulties - There are few [] teletype systems in this country and, consequently, a lack of trained servicemen. As the readout devices wear, servicing will become a difficult problem. In addition, replacement parts are not generally available. NOTE: [] has no technician specifically trained on [] that is available.

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2. [] effectiveness - In view of the advanced design of the [] readout system would be obsolete because of speed and flexibility. The present model [] is capable of 5.2 characters a second or approximately 10 seconds per readout. Even with a buffered storage readout, this is slower than the ability of the operator to make multiple pointings. In addition, the [] system does not allow any flexibility for alternations of readout or insertions of additional information for computer use. Additionally is the difficulty of utilizing five-channel tape.

3. Proposed system - A far more effective readout system would be one consisting of a high speed tape punch compatible to modern computers and a conventional typewriter with provision for insertion of additional information for computer use. One such system would consist of a Telecomputing High Speed Tape Perforator, an [] electric typewriter, with auxiliary keyboard, with an option of utilizing both units singly or together.

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The tape punch is capable of 40 characters a second and is offered with an option of wired matrix boards or plug-in units which are readily changeable for any output code you desire to use. It is capable of any combination of five to eight channels, dependent only on the matrix used.

Most of the advantages of such a system are readily apparent. The three most important being compatibility with any computer, speed in keeping with the comparator's advanced design, and maintenance ease. One such maintenance advantage of the plug in matrix models is the interchangeability of the matrix boards. A spare board could be used to minimize down time while the other board is being repaired.

Declass Review by NIMA/DOD

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The punch can be mounted in the same cabinet with the [redacted]
accumulators and may replace the need for any matrix [redacted]

Attached is a comparative cost sheet for the two systems. However,
it is not complete and should be considered only as a rough guide.
Less expensive systems may be available.

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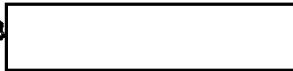
Tape punch with wired matrix

IBM typewriter with standard 16" carriage.



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